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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,049	02/13/2006	Nicola Da Dalt	1435.128.101/12928	4105
	7590 11/07/2007 G & C 7 A 1 A	EXAMINER		
DICKE, BILLIG & CZAJA FIFTH STREET TOWERS 100 SOUTH FIFTH STREET, SUITE 2250 MINNEAPOLIS, MN 55402			GANNON, LEVI	
			ART UNIT	PAPER NUMBER
MINITER OF	10, 1111 00 100		2817	
			MAIL DATE	DELIVERY MODE
•			11/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)				
		10/541,049	DA DALT, NICOLA				
		Examiner	Art Unit				
		Levi Gannon	2817				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 05 Se	eptember 2007.					
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
4)⊠	4) Claim(s) 17-19,22-25 and 29-31 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	s)⊠ Claim(s) <u>17-19,22-25 and 29-31</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.					
10)🖂	10)⊠ The drawing(s) filed on <u>05 June 2007</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmo-	tte)						
Attachmen 1) ☐ Notic	t(s) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

DETAILED ACTION

Drawings

The objection to the drawings set forth in the Office Action mailed 6/5/07 are hereby withdrawn due to changes made by the Applicant.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17-19, 22-25, and 29-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Duff (GB 2 002 157; of record).

Regarding claim 17, Duff discloses a device (figure 2) for frequency synthesis comprising: an oscillator (11,30) driven for generating, at a frequency out of a set of at least two possible output frequencies (frequencies can be: frequency found at "IN" node, a divided frequency from 1 lb, or zero), an output signal (OUT); and a control device (20) for driving the oscillator (11,30), wherein the control device, for the purpose of generating a desired frequency that is not included in the set of possible output frequencies (by providing an average frequency), is configured to drive the oscillator to alternately generate at least two different output frequencies (frequencies can be:

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frequency found at "IN" node, a divided frequency from 1 lb, or zero), out of the set of possible output frequencies, such that an average value of the generated output frequencies over a certain time period is substantially the desired frequency (note abstract), desired frequency, wherein the control device is configured to drive the oscillator such that the at least two generated output frequencies are alternated at an average frequency that is less than the at least two possible output frequencies (Switches 35/37, and 36/37 can be switched at any desired speed, specification page 2, lines 104-110.).

Regarding claim 29, the method as recited in the claim is inherently present in the structure as discussed above in the rejection of claim 17 rejections.

Claims 18, 19, 22-25, 30, and 31 stand rejected for the reasons of record set forth in the Office Action dated 6/5/07.

Response to Arguments

Applicant's arguments filed 9/5/07 have been fully considered but they are not persuasive.

Regarding Applicant comments directed to the rejection of claims 17 and 29 under 35 U.S.C. 102(b) over Duff, Applicant argues, "This text of Duff GB Patent, however, does not disclose any statement regarding speed of the switching, such as defined in amended independent claims 17 and 29." Applicant also points out, "This text of the Duff GB Patent explicitly recommends employing a high switching frequency and therefore teaches away from the control device being configured to drive the oscillator

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such that the at least two generated output frequencies are alternated at an average frequency that is less than the at least two possible output frequencies such as recited in amended independent claim 17 and from alternating the at least two generated output frequencies in an average frequency that is less than the at least two different output frequencies as recited in amended independent claim 29."

These arguments are not persuasive because Duff discloses a statement regarding the speed of switching. Duff teaches the ability to switch selectively open and close the switching means 3 and switching means 6 **for desired periods of time**. Note page 2, lines 104-110. Given this wide range of switching speeds, Duff allows for switching output frequencies at an average frequency less that the at least two possible output frequencies.

Also, while Duff teaches benefits of rapid switching (page 2, lines 22-27), as noted by the Applicant, Duff makes no mention of the switching speed with respect to the at least two output frequencies. The only mention of switching speeds disclosed by Duff is that the switching means 3 and 6 may be opened and closed for desired periods of time, i.e. at any desired rate. Note page 2, lines 104-110.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Levi Gannon whose telephone number is (571) 272-7971. The examiner can normally be reached on Monday-Friday 9:30AM-6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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LG

Robert/Pascal

Supervisory/atent Examiner Tech. gy Center 2800